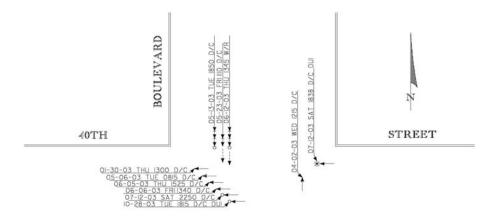
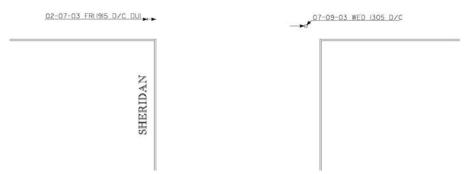
5.5 40th Street and Sheridan Boulevard

BEFORE

ADT: 22,650 veh/day (2002) **Time Period:** 2003

Traffic Control: Actuated Coordinated Signal Crash Pattern: EB Left Turns







40th Street and Sheridan Boulevard - Westbound Approach (Before)

5.5 40th Street and Sheridan Boulevard

AFTER

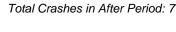
2005

Time Period: Countermeasures: Removed Traffic Signal and

Constructed Roundabout

Improvement August, 2004 **Speed Limits:** NS Arterial- 35 mph **Completion Date:** EW Arterial- 35 mph

> STREET SHERIDAN BLVD 09-21-05 WED 1745 D/C 12-07-05 WED 2105 S/C





40th Street and Sheridan Boulevard - Westbound Approach (After)

5.5 40th Street and Sheridan Boulevard

COMPARISON

Countermeasures: Removed Traffic Signal and Constructed Roundabout

Improvement Completion Date: August, 2004

	Before	After	Change
	2003	2005	-
Analysis Period			
Primary Crash Benefit			
Total Number of Correctable Crashes	9	3	-67%
All Other Intersection Crashes	4	4	0%
Intersection Crash Experience			
Injury + Fatal Crashes	5	1	-80%
Property Damage-Only Crashes	7	5	-29%
Non-Reportable Crashes	1	1	0%
Total Number of Intersection Crashes	13	7	-46%
Total Intersection Benefit			
Crash Rate	1.57	0.85	-46%
EPDO Rate	6.59	1.86	-72%
EPDO Number*	54.46	15.34	-39.12

Cost of Property Damage Crash: \$ 8,200
Total Benefit (12 months): \$ 320,784
Equivalent Uniform Annual Benefit \$ 411,775
(EUAB):

Total Cost of Improvements:

Equivalent Uniform Annual Cost (EUAC): \$ 26,325 Initial Cost: \$ 301,930

Benefit-Cost Ratio: $\frac{\$}{\$} \frac{411,775}{26,325} = 15.6$

Net Benefit (Present Worth): \$ 411,775 - \$26,325 = \$385,450

*Change NOT Statistically Significant at 95% Confidence Interval



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